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Target Audience Analysis (TAA) Presentation/Briefing

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**Human Effectiveness Directorate
Cognitive Systems Branch**

March 2006

Interim Report for January 2004 to March 2006

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Target Audience Analysis (TAA)

Interim Report: WU 7184X05C

Mar 2006



Lt H. Lee Ellwanger

Program Manager

Human Effectiveness Directorate



Target Audience Analysis



MOA was signed by AFRL and AFIT, effective Aug 05, in support behavioral modeling and other research.

Researchers gain access to cutting edge problems, subject matter experts, and data support

AFRL and NASIC benefit from research as it develops, aid in focusing work, and access to AFIT personnel and students

A win-win-win collaboration!

This will be done through masters thesis and graduate research efforts and doctoral dissertations

In addition, NASIC and AFIT have instituted a program to sponsor qualified junior officers to attend AFIT



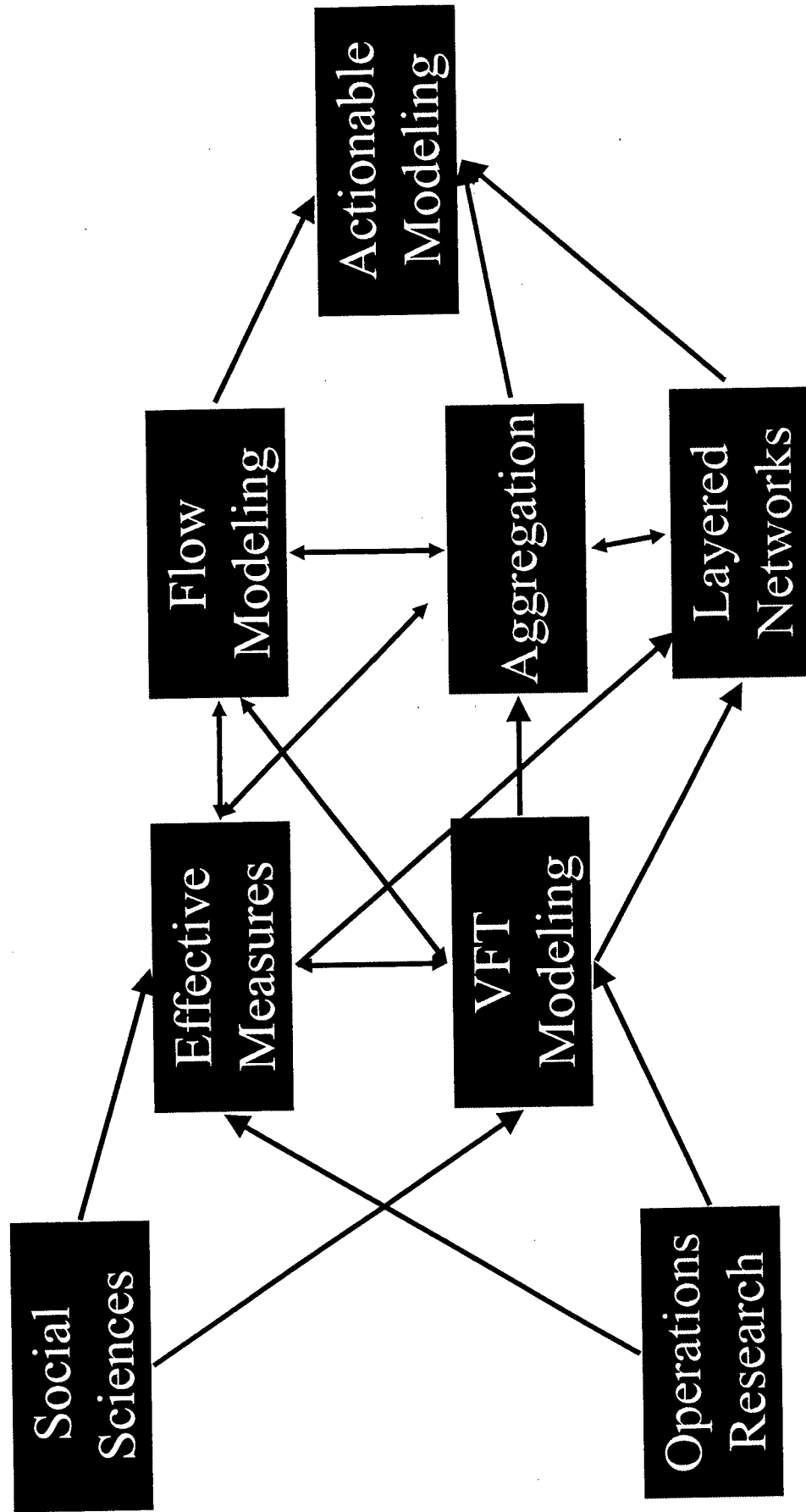
Target Audience Analysis



- Developing advanced mathematical models for SNA
 - Determining vulnerabilities in complex networks
 - Profile, differentiate, classify leaders
 - Disrupt and destruct clandestine networks
 - Address challenges of behavioral influence analysis by using SNA with OR to create actionable modeling
- Provides research that can begin to address challenges the intel analysts face with adversarial modeling and provide model development input



Target Audience Analysis





PSYOP Target Audience Analysis



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Resource Information	Products and Benefits to the Customer
<ul style="list-style-type: none">• Program Information• Program Level: 6.2• Start/Finish: FY05 – FY06• Total Funding (\$K): \$225K• Total S&E effort: 6 S&E-years• Principal Technical Disciplines Involved<ul style="list-style-type: none">• Operations Research• Human Factors• Mathematics• Cultural Modeling• Behavioral Science• Intelligence Analysis	<ul style="list-style-type: none">• Principal Customers: NASIC, ACC and AFIWC• Products<ul style="list-style-type: none">• Present:<ul style="list-style-type: none">• Actionable SNA Models• Future:<ul style="list-style-type: none">• Advanced, tailored social network analysis tools• Benefit / Impact to the next user of your product (Value)<ul style="list-style-type: none">• Future:<ul style="list-style-type: none">• Social Influence Network Analysis• Layered Social Network Analysis• Behavioral Influences Analysis

Description
<p>Goal:</p> <p>Specific Objectives: (Top 2 or 3 in bullets)</p> <ul style="list-style-type: none">• Develop and demonstrate innovative PSYOP/Influence Ops planning & assessment tools• Advance the science of target audience analysis• Support strategic, operational planners <p>Approach or Methodology:</p> <ul style="list-style-type: none">• Interoperable analysis, planning, and targeting tools• Model-based decision support tools/methodology capable of predicting/measuring the effectiveness of PSYOP applications and strategies in the battlespace <p>Major Technology Milestones (Top 2-3 in bullets)</p> <ul style="list-style-type: none">• advancing new applications and processes to run in existing SNA tools• reliable mathematical architecture yielding 95% successful identification



Transition and Follow on Work



- Vehicle to utilize these models and algorithms for analyst use
 - Transition into software tool
 - Could also fund other model development
- Organizational and Cultural Criteria for Adversarial Modeling (OCCAM) Decision Aid
 - This will be combined with Graphical Agent Development Environment (GRADE), to form OCCAM-GRADE
 - Completion of this reengineered tool will be June 07



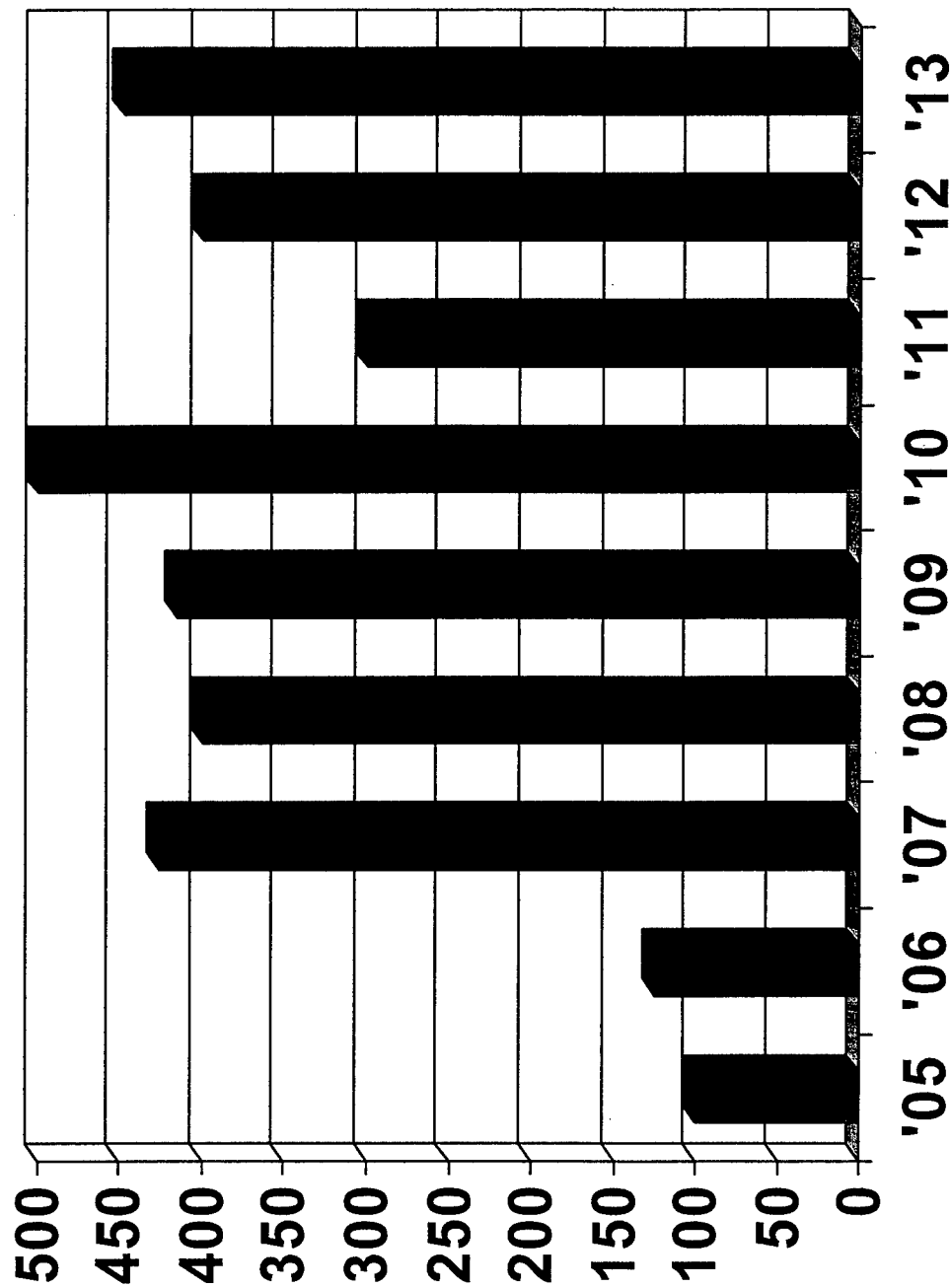
Transition and Follow on Work



- Will be government owned
- Will be used by other government agencies
 - Model development will incorporate AFIT and CIA models, and also PSYOP modeling process by CRA
- HECS managed program
 - We have say in development
- Using tools already in existence, OCCAM and GRADE (currently being reengineered into OCCAM-GRADE)



TAA/TAI Current Funding



■ \$K



Funding and Execution



- **Obligations**
 - 06 Funding (125K) has been MIPRed to AFIT
- **Expenditures**
 - Salaries and Benefits
 - Contract Services
 - Equipment
 - Supplies
 - Travel
 - Indirect Costs